



भारत का राजपत्र

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PUBLISHED BY AUTHORITY

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No. 23]

नई दिल्ली, शनिवार, जून 8, 1991 (ज्येष्ठ 18, 1913)
NEW DELHI, SATURDAY, JUNE 8, 1991 (JYAISTHA 18, 1913)

इस भाग में भिन्न पृष्ठ संलग्न दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएँ और नोटिस
[Notifications and Notices Issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE
PATENTS AND DESIGNS
Calcutta, the 8th June, 1991

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Telegraphic address "PATOFFICE".

Patent Office Branch,
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Municipal Market Building,
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New Delhi-110 005.

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Telegraphic address "PATENTOFIC".

Patent Office Branch,
61, Wallajah Road,
Madras-600 002.

The States of Andhra Pradesh, Karnataka, Kerala, Tamilnadu, and the Union Territories of Pondicherry, Laccadive, Minicoy and Aminidivi Islands.

Telegraphic address "PATENTOFIS".

Patent Office (Head Office),
"NIZAM PALACE", 2nd M.S.O. Bldg.,
5th, 6th and 7th Floor,
234/4, Acharya Jagdish Bose Road,
Calcutta-700 020.

Rest of India.

Telegraphic address "PATENTS".

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

Fees :—The fees may either be paid in cash or may be sent by Money Order or Postal Order, payable to the Controller at the appropriate Offices or by Bank Draft or Cheque, payable to the Controller drawn on a scheduled bank at the place where the appropriate office is situated.

पेटेंट कार्यालय

एकस्व तथा अधिकार

कलकत्ता, विनाक 8 जून 1991

पेटेंट कार्यालय के कार्यालयों के पते एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ता में रिहा है तथा अस्वैर, दिल्ली एवं मद्रास में इसके शास्त्र कार्यालय हैं, जिनके प्रादोषेक क्षेत्राधिकार जोन के आधार पर निम्न रूप में प्रतिशित हैं :—

पेटेंट कार्यालय शास्त्र, टोही हस्टेट
सीसरा तल, लोअर परेत (पश्चिम),
अस्वैर-400 013

गुजरात, महाराष्ट्र तथा मध्य प्रदेश राज्य क्षेत्र एवं संघ शासित क्षेत्र गोवा,
दमन तथा विष एवं दावरा और नगर हवेली।

तार पता—“पेटेंटोफिस”

पेटेंट कार्यालय शास्त्र,
हकाई सं० 401 से 405, तीसरा तल,
नगरपालिका बाजार भवन,
सरस्वती मार्ग, करोल आग,
नई विल्ली-110 005

हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर, पंजाब, राजस्थान तथा
उत्तर प्रदेश राज्य क्षेत्रों एवं संघ शासित क्षेत्र चंडीगढ़ तथा दिल्ली।

तार पता—“पेटेंटोफिक”

पेटेंट कार्यालय शास्त्र,

61, वालाजाह रोड,
मद्रास-600 002

आंध्र प्रदेश, कर्नाटक, केरल, तमिलनाडु राज्य क्षेत्र एवं संघ शासित क्षेत्र पाण्डिचेरी, लक्षदीप, मिनिकॉय तथा एमिनिदिवि द्वीप।

तार पता—“पेटेंटोफिस”

पेटेंट कार्यालय (प्रधान कार्यालय),
निजाम पैलेस, द्वितीय अहुतलीय कार्यालय
भवन 5, 6 तथा 7वां तल,
234/4, आचार्य जगदीश बोस रोड,
कलकत्ता-700 020

भारत का अवशेष क्षेत्र

तार पता—“पेटेंटेस”

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में अपेक्षित सभी आवेदन-पत्र, सूचनाएं, विवरण या अन्य प्रलेख पेटेंट कार्यालय के केवल उपयुक्त कार्यालय में ही प्राप्त किए जाएंगे।

धूलक :—शूलकों की अदायगी या तो नकद की जाएगी अथवा उपयुक्त कार्यालय में नियंत्रक को मुगातान योग्य घनावेश अथवा ढाक आदेश या जहां उपयुक्त कार्यालय स्थित है, उस स्थान के अनुसूचित बैंक से नियंत्रक को मुगातान योग्य बैंक ढाफ्ट अथवा चैक द्वारा की जा सकती है।

APPLICATIONS FOR PATENTS FILED AT THE HEAD OFFICE
234/4, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-20

The dates shown in the crescent brackets are the dates claimed under Section 135, of the Patents Act, 1970

The 29th April, 1991

324/Cal/91 Rca Licensing Corporation. A deflection system with a controlled beam spot.

325/Cal/91 Mc Neil-Ppc, Inc. Taste masking and sustained release coatings for pharmaceuticals.

326/Cal/91 Krone Aktiengesellschaft. Cutting/clamping contact.

327/Cal/91 E.I. Du Pont De Nemours and Company. Novel polyesters and their use in compostable products such as disposable diapers.

328/Cal/91 Siemens Aktiengesellschaft. Method for the control of mobile systems.

329/Cal/91 Siemens Aktiengesellschaft. Method and device for evaluating a digital signal using a digital counter.

330/Cal/91 Hoechst Aktiengesellschaft. Low-dust or dust-free dye preparations.

331/Cal/91 Trico-Folberth Limited. Vertebra for a windscreens wiper blade rubber and a windscreens wiper blade incorporating such a vertebra. (Convention date 2nd May, 1990; No. 90 009897.1, U.K.).

332/Cal/91 Govind Sanwaria. A digital recording system for manufacturing and production industries.

333/Cal/91 Govind Sanwaria. A flasher unit for use in signalling with lights.

334/Cal/91 Govind Sanwaria. A novel sound communication or reproduction system.

335/Cal/91 Samsung Electron Devices Co. Ltd. Magnet assembly for correcting crt misconvergence.

The 30th April, 1991

336/Cal/91 E.I. Du Pont De Nemours and Company. Improved process for the rapid production of cyclic esters.

337/Cal/91 Siemens Aktiengesellschaft. Device for transmitting a linear movement with the aid of a key element.

338/Cal/91 General Electric Company. Thermal seal for a gas turbine spacer disc.

339/Cal/91 Kin-Shue Hsieh. Hygienic toothbrush. (Convention date 28th February, 1991; Canada).

The 2nd May, 1991

340/Cal/91 Fidia S.P.A. Process for the selective modulation of the expression and function of a determinant on the cell surface by means of appropriate chemical agents.

The 3rd May, 1991

341/Cal/91 Ashoke Kumar Das. Fly-ash brick/briquette dicalcium silicate method.

342/Cal/91 The Morgan Crucible Co. Plc. High temperature refractory fiber. [Divisional date 1st May, 1984].

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, MUNICIPAL MARKET BUILDING, III RD FLOOR, KAROL BAGH, NEW DELHI-5

The 1st April, 1991

262/Del/91 AB Bofors, "Subwarhead".

263/Del/91 Rohm & Haas Co., "Phenoxyalkanol as a stabilizer for isothiazolones".

264/Del/91 Allen-Bradley Co., Inc., "Apparatus for controlling an electric motor".

265/Del/91 Imperial Chemical Industries PLC, "Chemical Process". (Convention date 29th March, 90) (U.K.).

The 2nd April, 1991

266/Del/91 The Procter & Gamble Co., "Fabric Cleaning Process". (Convention date 3rd April, 90) (U.K.).

267/Del/91 Exxon Chemical Patents, Inc., "Fuel oil additives and compositions". (Convention date 9th April, 90) (U.K.).

268/Del/91 Johnson Matthey Public Ltd., Co., "Improved Catalyst Material".

The 3rd April, 1991

269/Del/91¹ Council of Scientific & Industrial Research, "A process for the preparation of bromochloromethane".

270/Del/91 The Lubrizol Corporation, "A method of preparing basic metal dihydrocarbylphosphorodithioates". [Divisional date 8th April 1988].

271/Del/91 The Lubrizol Corporation, "A lubricating composition". [Divisional date 8th April, 1988].

272/Del/91 Gebruder Buhler AG., "A processing apparatus and process for crystallizing and drying of granulate material". [Divisional date 5th May, 1988].

273/Del/91 The Gillette Co., "Safety Razor Blade".

274/Del/91 Nokia-Maillefer Holdings S.A., "Device for fluid-tight connection of an extrusion head".

275/Del/91 Nokia-Maillefer Holdings S.A., "Extrusion line for sheathing elongated metal elements".

276/Del/91 Albright & Wilson Ltd., "Fabric Treatment Process". (Convention date 12th April, 90) (U.K.).

277/Del/91 Albright & Wilson Ltd., "Fabric Treatment". (Convention date 12th April, 90) (U.K.).

278/Del/91 Albright & Wilson Ltd., "Treatment of Fabrics". (Convention date 12th April, 90) (U.K.).

The 4th April, 1991

279/Del/91 Ingersoll-Rand Co., "Coupling for anchor rod and sleeve".

280/Del/91 Ingersoll-Rand Co., "Barrier plug for dynamic rock stabilizing fixture".

281/Del/91 Ingersoll-Rand Co., "Barrier plug for a bore".

282/Del/91 BP Chemical Ltd., "Gas phase olefin polymerization process".

283/Del/91 Walter Holzer, "Compact Fluorescent Lamp".

284/Del/91 Maxx Energy Services Group, Inc., "Well Packing Tool".

285/Del/91 GEC Plessey Telecommunications Ltd., "Data Element Switch". (Convention date 25th May, 90) (U.K.).

The 5th April, 1991

286/Del/91 J. B. Banerji, "Cane and Bamboo Wheel Chairs".

287/Del/91 Council of Scientific & Industrial Research, "A process for the preparation of salt-tolerant, thermostable protease (Alkaline) from *Bacillus* Sp NCIM No. 64".

288/Del/91 Council of Scientific & Industrial Research, "A process for the preparation of salt-tolerant, thermostable neutral amylase from *Bacillus* Sp NCIM No. 64".

289/Del/91 Chief Controller Research & Development, Ministry of Defence, "A process for the surface treatment of silicon solar cells to enhance their performance".

290/Del/91 Harinder S. Cheema, "A device for production of bricks".

291/Del/91 The Gillette Co., "Safety Razor".

CLAIM UNDER SECTION 20(1) OF THE PATENTS ACT, 1970

The Claim made by Gough Holdings (Engineering) Limited under Section 20(1) of The Patents Act, 1970 to proceed the application for Patent No. 743/Del/85 in their name has been allowed.

PROCEEDINGS UNDER SECTION 27

In pursuance of proceedings under Section 27 to grant of a Patent on application No. 163823 (521/Del/85) made by Piaggio & C.S.P.A. Patent has been ordered to be sealed on the application subject of amendment of the complete specification.

PRINTED SPECIFICATION CHALLAN

A limited number of Printed Copies of the undenoted specifications are available for sale from the PATENT OFFICE, CALCUTTA and its three Branches at Bombay, Madras and Delhi at Rs. 2/- (Rupees two only) per copy.

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 158362 158363

PATENTS SEALED

164780 166510 166667 166792 166793 166795 166804 166828 166835
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 166900 166909 166915 166973 166977 166979 166980 166991 166992
 166993

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DEL = 4

MAS = 3

BOM = 10

RENEWAL FEES PAID

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 161025 161028 161256 161346 161627 161952 162003 162031 162040
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 162700 162705 162712 162743 162781 162863 163029 163093 163154
 163304 163337 163478 163533 163599 163617 163704 163722 163856
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 164392 164393 164396 164397 164400 164498 164532 164553 164557
 164667 164711 164766 164831 164862 164864 164984 165149 165195
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 166156 166159 166160 166193 166206 166214 166219 166273 166276
 166280 166293 166296 166297 166302 166391 166545 166558 166761
 166762 166763 166781 166783 166786 166787 166791 166798 166799
 166809 166844 167153 167158 167164 167169

CESSATION OF PATENTS

152313 152363 152366 152367 152368 152369 152379 152385 152404
 152406 152407 152448 152455 152457 152458 152465 152469 152471
 152473 152474 152475 152476 152479 152481 152488 152489 152491
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 152568 152569 152570

RESTORATION PROCEEDINGS

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 154708 granted to THE AHMEDABAD MANUFACTURING AND CALICO PRINTING COMPANY LIMITED, for an invention relating to "A PROCESS FOR PRINTING OF POLYSTER BLENDED OR POLYESTER MIXED FABRICS FOR IMPARTING A DIFFUSED PRINT EFFECT THERETO".

The patent ceased on the 9th February, 1990 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 9th March, 1991.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 8th August, 1991 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 162617 granted to WESTINGHOUSE ELECTRIC CORPORATION for an invention relating to "OIL-FILLED DISTRIBUTION TRANSFORMERS".

The patent ceased on the 6th January, 1990 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 9th March, 1991.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 8th August, 1991 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 165576 granted to WALTER STICHT for an invention relating to APPARATUS FOR SUPPLYING AND INDIVIDUALLY EXTRACTING ASSEMBLY PARTS FROM A CONVEYOR".

The patent ceased on the 20th December, 1990 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 9th March, 1991.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 8th August, 1991 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 1,7446 granted to PACCO INDUSTRIAL CORPORATION for an invention relating to "AN IMPROVED TICKLER ASSEMBLY FOR CARBURETTORS OF PETROL AND LIQUE ENGINES".

The patent ceased on the 8th February, 1990 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 9th March, 1991.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 8th August, 1991 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

RESTORATION PROCEEDINGS

Notice is hereby given that an application for restoration of Patent No. 165081 dated the 19th March, 1986 made by Voest Alpine Aktiengesellschaft on the 25th October 1990 and notified in the Gazette of India, Part III, Section 2 dated the 23rd February 1991, has been allowed and the said patent restored.

COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the Applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed alongwith the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

The classifications given below in respect of each specification are according to Indian Classification and International Classification.

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sarobar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by four to get the charges as the copying charges per page are Rs. 4/-.

स्वीकृत सम्पूर्ण विनिर्देश

एतद्वारा यह सूचना दी जाती है कि सम्बद्ध आवेदनों में से किसी पर पेटेंट अनुबान का विरोध करने के इच्छुक कोई व्यक्ति, इसके निर्गम की तिथि से ५ महीने या अधिक ऐसी अवधि जो उक्त ५ महीने की अवधि की समाप्ति के पूर्व पेटेंट नियम, 1972 के तहत विहित प्रपत्र-14 पर आवेदित एक महीने की अवधि से अधिक न हो, उस भीतर कभी भी नियंत्रक, एकस्व को ऐसे विरोध की सूचना विहित प्रपत्र-15 पर दे सकते हैं। विरोध सम्बन्धी लिखित वक्तव्य, उक्त सूचना के साथ अवधा पेटेंट नियम, 1972 के नियम 36 में यथाविहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिए।

"प्रत्येक विनिर्देश के संदर्भ में नीचे दिए वर्गीकरण, मारतीय वर्गीकरण तथा अन्तरराष्ट्रीय वर्गीकरण के अनुरूप है।"

नीचे सूचीगत विनिर्देशों की सीमित संख्यक में मुद्रित प्रतियाँ, मारत सरकार बुक डिपो, 8, किरण शंकर राय रोड, कलकत्ता में विक्रय हेतु यथासमय उपलब्ध होती है। प्रत्येक विनिर्देश का मूल्य 2/- रु० है (यदि मारत के बाहर भेजे जाएं तो अतिरिक्त दाक खाच)। मुद्रित विनिर्देश की आपूर्ति हेतु मांग पत्र के साथ निम्नलिखित सूची में यथाप्रदर्शित विनिर्देशों की संख्या संलग्न रहनी चाहिए।

रूपांकन (चित्र आरेखों) की फोटो प्रतियाँ, यदि कोई हों, के साथ विनिर्देशों की टकित अवधा फोटो प्रतियों की आपूर्ति पेटेंट कायालिय, कलकत्ता द्वारा विहित लिप्यान्तरण प्रभार जिसे उक्त कायालिय से पत्र-व्यवहार द्वारा सुनिश्चित करने के उपरांत उसकी अदायगी पर की जा सकती है। विनिर्देश की पृष्ठ संख्या के साथ प्रत्येक स्वीकृत विनिर्देश के सामने नीचे वर्णित चित्र आरेख कागजों को जोड़कर उसे 4 से गुणा करके; (क्योंकि प्रत्येक पृष्ठ का लिप्यान्तरण प्रभार 4/- रु० है) फोटो लिप्यान्तरण प्रभार का परिकलन किया जा सकता है।

Ind. Cl. : 113 I.
Int. Cl. : B 62 J-6/00, B 60 Q-1/02.

168782

IMPROVED LAMP CIRCUIT FOR MOTOR SCOOTERS
MOTOR CYCLES AND THREE WHEELER MOTOR
VEHICLES.

Applicant : BAJAJ AUTO LTD., AKURDI, PUNE-411 035,
MAHARASHTRA, INDIA.

Inventors : ZIPARU CHUDAMAN BENDALE & CHAN-
DRASIEKHAR DATTATRAYA BAPAT.

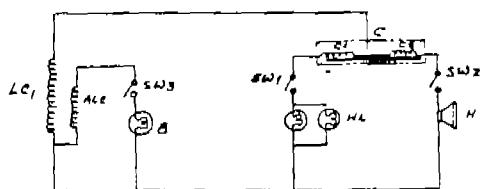
Application No. 59/Bom/1988, filed on 9th March, 1988.

Compl. after provisional left on May 15, 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patents
Rules, 1972), Patent Office Branch, Bombay-400 013.

4 Claims

An improved lamp circuit for motor vehicles referred to herein which circuit comprises a head lamp and an electric horn connected in parallel across main lighting coil of a magneto through a coil having two segments wound over a piece of soft iron and connected together, the junction between the segments being connected to one end of the main lighting coil.



Prov. Specn. 6 Pages.
Compl. Specn. 7 Pages.

Drg. 1 Sheet.
Drg. Nil.

Ind. Cl. : 69 A [LIX].
Int. Cl. : H01 H-73/12, 73/48.

168783

AN IMPROVED MINIATURE CIRCUIT BREAKER

Applicant & Inventor : PRAKASH PURUSHOTTAM DEO, AT
DEOSON INDUSTRIES, GEETANJALI APTS., PLOT NO. 19,
OFF : ROAD, AUNDH, PUNE-411 007, MAHARASHTRA,
INDIA.

Application No. 88/Bom/1988, filed on March 30, 1988.

Compl. after prov. left on June 29, 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patents
Rules, 1972), Patent Office Branch, Bombay-400 013.

2 Claims

An improved miniature circuit breaker comprising :

a first and a second terminals mounted at both ends of a
main body of insulating material;

a spring loaded cam supported on the side walls of said main
body; and

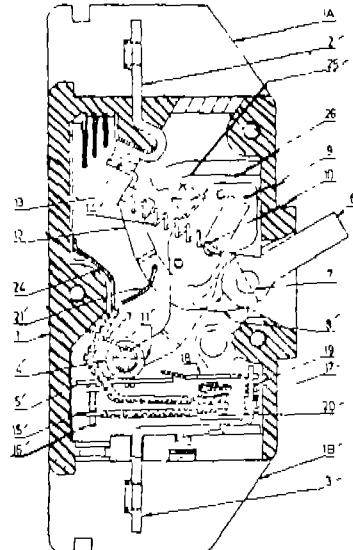
arms provided as herein described and electrically connected to
said second terminal which are adapted to tilt said spring loaded cam
in the event of occurring thermal or magnetic tripping due to faulty/
overcurrent, characterised in that—

said cam is provided with a cavity;

a displaceable bracket, one end supported on said main body via a
lug in the main body and a cavity in the bracket, and the other end
consisting of a cavity displaceably located on the said cavity of spring
loaded cam;

a switching knob supported on the side walls of said main body
and, consisting at one end a groove and an extended edge of said
groove, which rest beneath an extension of said displaceable bracket
within the main body and the other end projecting out of the main
body;

a displaceable arcuate contact member electrically connected to
said second terminal, via a flexible means, one end carrying terminal
adapted to make or break contact with said first terminal and is con-
nected to said extension of the displaceable bracket via a spring, and
the other end retained within the said groove of switching knob.



Prov. Specn. 5 Pages.
Compl. Specn. 13 Pages.

Drgs. 2 Sheets.
Drgs. 3 Sheets.

Ind. Cl. : 32F1 + 32F2(b) [IX (1)] 55E4 [XLY (1)].

168784

Int. Cl. : C 07 D-235/00.

A NEW PROCESS FOR THE MANUFACTURE OF BEN- ZIMIDAZOLE CARBAMATES.

Applicant : HINDUSTAN CIBA-GEIGY LIMITED, 14,
JAMSHEDJI TATA ROAD, BOMBAY-400 020, MAHARASHTRA,
INDIA, AN INDIAN COMPANY.

Inventor : NARAYANAIYER VISWANATHAN.

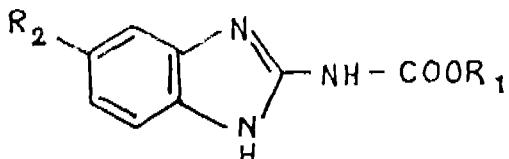
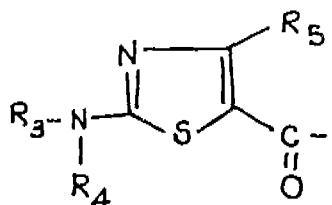
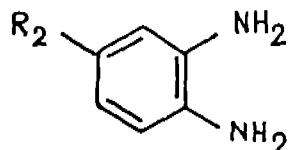
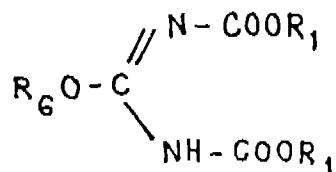
Application No. 234/Bom/1988, filed on 29th July, 1988.

Comp. after prov. left on 9th June, 1989.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Bombay-400 013.

2 Claims

A process for the manufacture of benzimidazol carbamates of the formula I

wherein R₁ is a hydrocarbon residue of aliphatic character and R₂ is alkyl, alkoxy, alkylthio, arylthio, aryl or an aminothiazoloyl group of the formula IIwherein R₃ and R₄ are hydrogen or a hydrocarbon radical or aliphatic character or when taken together are substituted or unsubstituted bivalent hydrocarbon residue of aliphatic character in which the carbon atoms of the chain can be interrupted by a hetero atom and R₅ is hydrogen or a hydrocarbon residue of aliphatic character, their tautomeric compounds and salts thereof, which comprises reacting an O-phenylenediamine of formula IIIwherein R₂ has the above meanings with an isourea derivative of formula VIIwherein R₁ has the above meaning and R₆ is lower alkyl in the presence of a catalyst such as acetic acid or p-toluenesulfonic acid and a solvent such as methanol and if desired, converting a compound of formula I into a salt, and if desired, converting a resulting salt of a compound of the formula I into a free compound thereof.Compl. Specn. 13 Pages.
Prov. Specn. 9 Pages.Drg. Nil.
Drg. 1 Sheet.Ind. Cl. : 86 E [LXVI (4)].
Int. Cl. : A 47 C—29/00.

A FOLDING PORTABLE MOSQUITO NET.

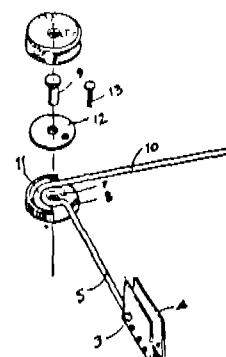
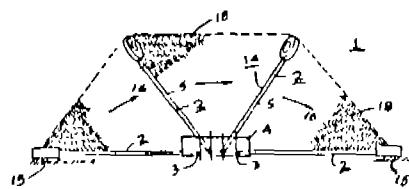
Applicant & Inventor : VINAYAK RAJARAM BARGE 257
NARAYAN PETH PUNE 411 030, MAHARASHTRA STATE,
INDIA A SUBJECT OF THE REPUBLIC OF INDIA.

Application No. 273/Bom/1988, dated 21st September, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Bombay-400 013.

1 Claim

A folding portable mosquito net comprising four 'U' shaped brackets, the free ends of which are anchored in two central hinge plates to form a central support to the erected mosquito net, characterised in that each 'U' shaped bracket has two arms, free end of which is hingedly fixed in the said central hinge plate while the other end is attached to a specially made corner hinge, the said other end being turned around a central rivet, while two ends of the third arm of the said 'U' shaped bracket is fixed in the said corner hinge, having a disc with said central rivet and another rivet to restrict the movement of the said two arms as herein before described.



Compl. Specn. 5 Pages.

Drgs. 3 Sheets.

Ind. Cl. : 190B + C [XLIV (2)].
Int. Cl. : F01D—1/06.

168786

AN IMPROVED UNBALANCE TURBINE.

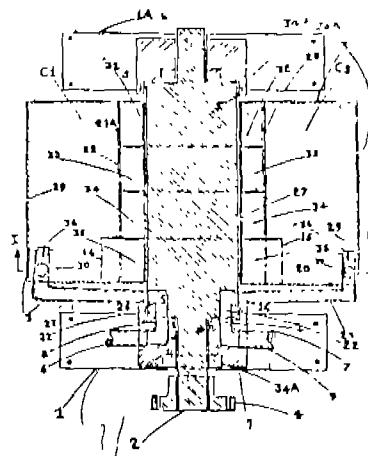
Applicant & Inventor : JOAQUIM ANTONIO VALADARES,
ALTO GUIMARAES HOUSE, NO. 299, PANAJI, GOA-403001,
INDIA.

Application No. 280/Bom/1988, filed on 7th October, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents
Rules, 1972), Patent Office Branch, Bombay-400 013.

2 Claims

An improved unbalance turbine comprising of a rotor mounted horizontally on two pedestals through bearings, said rotor comprising of a hollow ring mounted on a shaft and fixed by a key, said shaft having one step diameter in the middle portion on which at one side eight equidistant holes are being provided along the circumference which are connected to eight equidistant holes being provided on the face of the said step diameter, said hollow ring is fabricated of three cylinders having small, medium and large diameters and are fitted by welding on two flanges concentric to its diameters and the space in between said large cylinder and medium cylinder is divided by a baffle plate into equal divisions to form eight main compartments and the space in between the said medium and small cylinders is divided longitudinally by circular plates into equal divisions to form four connecting compartments, each of which is connected to two opposite compartments through openings provided on the said medium cylinder, said main compartments having one exhaust port and a manhole closed with flanges on the face of the hollow ring, said exhaust pipes being provided to each compartment consisting of a curve pipe connected by one straight pipe in T shape, said curve pipe is fixed by welding to inside face of the main compartment with its two ends fixed in the preceding compartment, said curve pipes are connected at middle portion by said straight pipes to pressure supply pipes of the said cylinder main compartment, and by said pressure supply pipes eight holes provided along the circumference of the shaft are connected by screwing to respective eight main compartments at top corner, and one check valve is fixed to extreme end of each of the said supply pipes; supply port and exhaust port is provided on one of the pedestal collar facing the eight equidistant holes on the shaft, in such a way that pressure supply port lies between 250° to 280° and exhaust port lies between 60° to 160° and these ports are connected by supply and exhaust pipes respectively.



Ind. Cl. : 151 B [XLVIII (2)], 16 B [LX (1)].
Int. Cl. : F23 J-3/02, B 08 B-9/02.

168789

Application No. 78/Bom/89, filed on 27th March, 1989.

IMPROVED SONIC CLEANER

Applicants : RIFOX ENGINEERING (INDIA) PVT. LTD., 5,
KRISHNA KUNJ 64/B1, ERANDWANE, PUNE-411 004,
MAHARASHTRA, INDIA.

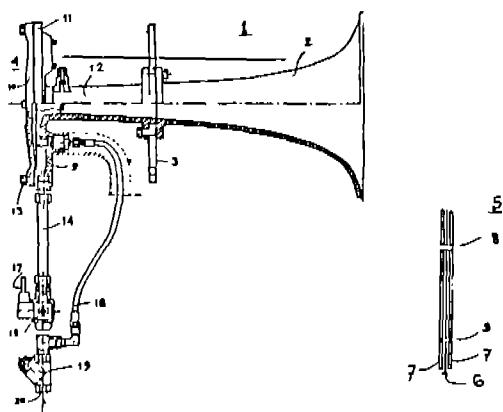
Inventor : SUHAS PANNALAL BAFANA.

Application No. 325/Bom/1988, filed on 25th November, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Bombay-400 013.

1 Claim

Improved sonic cleaner comprising a horn type resonator having flanges for mounting the same on desired equipment, characterised in that there is provided a sonic wave creator comprising multi-layer laminated composite diaphragm consisting of 0.15 to 0.3 mm thick sheet of synthetic rubber sandwiched between two thin stainless steel sheets having thickness of 18 to 24 gauge, the said composite diaphragm having two small holes, the upper hole is having a diameter of 1.5 to 3 mm while the lower hole is having a diameter of 0.5 to 1.5 mm, the said composite diaphragm is securely held between the assembly comprising a back plate fixed on another plate having a passage connected to the said resonator horn having a primary chamber which is connected to the main passage of compressed air, the said main passage having a by-pass tube which is connected to the said primary chamber to accomplish cooling of the said composite diaphragm.



Compl. Specn. 5 Pages.

Drg. 1 Sheet.

Ind. Cl. : 32 F1 IX (1) + 32 F2 (a)IX (1) + 55 D2 XIX (1). 168790
Int. Cl. : A01N 47/34, C07C, 127/00.

A PROCESS FOR THE PREPARATION OF AROYL UREAS FROM AROYLTHIOUREAS.

Applicant : SEARLE (INDIA) LTD., OF 21-D SUKHADWALA MARG, BOMBAY, 400 001, MAHARASHTRA, INDIA.

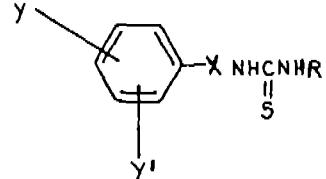
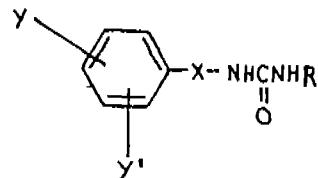
Inventors : DR. KUPPUSWAMY NAGARAJAN, 2. DR. SANJEEV MANOHAR GUPTA, 3. DR. KAITHATHU RAMAN RAMACHANDRAN, 4. MRS. SHARADA JAGANNATH SHENOY.

Divisional to Application No. 204/Bom/86, dated 24th July, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Bombay-400 013.

2 Claims

A process for the preparation of aroyl ureas of the formula I shown in the accompanying drawings, wherein each of Y and Y¹ stands for hydrogen atom, halogen atom such as fluorine, chlorine, bromine or iodine, alkyl group such as methyl or ethyl, alkoxy group such as methoxy or ethoxy, trifluoromethyl group or nitro group, X is carbonyl group and R is alkyl group such as methyl, ethyl, propyl, pentyl, n-butyl or phenyl optionally substituted by one or more substituents such as any one of the atoms or groups mentioned or Y or Y¹, or cycloalkyl residue such as cyclopropyl, cyclobutyl, cyclopentyl or cyclohexyl, said process comprises oxidising aroyl thiourea of the formula II shown in the accompanying drawings, wherein Y, Y¹, X and R are as defined above, with mercuric oxide or lead tetracetate in the presence of an organic solvent such as herein described at 0°C-100°C and recovering the aroyl urea of the formula I from the reaction mixture in a known manner such as herein described.



Compl. Specn. 5 Pages.

Drg. 1 Sheet.

Ind. Cl. : 48 D1
Int. Cl. : H01B 17/00.

168791

IMPROVED INSULATOR OF THE 'PIN' OR 'POST' TYPE.

Applicant : CERAVER, OF 12, rue de la Baume 75008 PARIS, FRANCE, a FRENCH Body Corporate.

Inventors : DENIS DUMORA, JEAN-PAUL PARANT & LAURENT PARGAMIN.

Application for Patent No. 330/Del/85 filed on 18th April, 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

Claims 2

An improved insulator of the "pin" or "post" type which in addition to withstanding high temperature changes and exhibiting high

impact strength will not shatter into fragments on being subjected to impact forces greater than its own prestressing which comprises two or more dielectric members stacked one above the other to form a column, each dielectric member comprising soda-lime glass dielectric material having an average thickness of from 10 to 15 millimetres, said material having a maximum surface compressive stress value in the range of 30 to 80 Megapascals and a maximum internal tensile stress value in the range of 15 to 40 Megapascals at any point within said material, the outer periphery of the upper or topmost member of said column being provided with at least a pair of grooves for supporting an overhead line, said dielectric members being secured to one another and to a base support by any known securing means, said securing means preferably being a metal pin.

Compl. specn. 7 Pages

Drgs. 2 Sheets.

Ind. Cl. : 32F. 2b.
Int. Cl. : C07D 495/00.

168792

PROCESS FOR THE PREPARATION OF THIOXANTHONE DERIVATIVES.

Applicant: WARD BLENKINSOP & COMPANY LIMITED, a British company, of Halebank Factory, Lower Road, Widnes, Cheshire, WA8 8NS, United Kingdom

Inventors: GEORGE GAWNE, PETER NICHOLL GREEN & WILLIAM ARTHUR GRFEN.

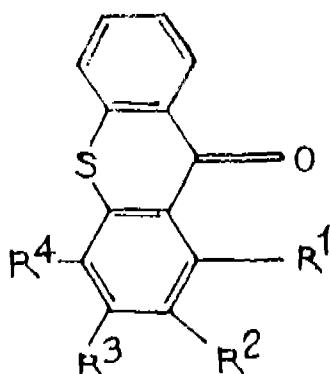
Application for Patent No. 1037/DEL/86 filed on 27th November 1986.

Convention date November 29/1985/8529448/U.K.

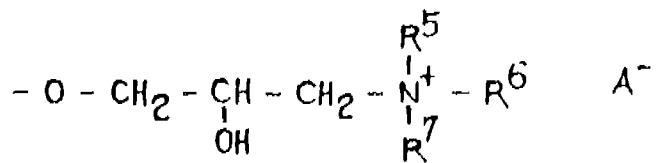
Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

Claims 7

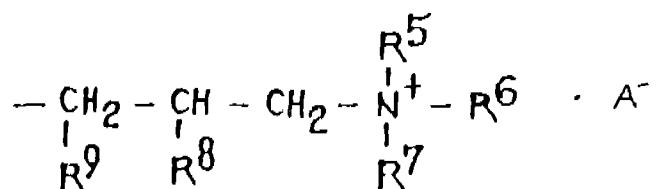
A process for the preparation of a thioxanthone derivative of general formula I of the drawings



Wherein one of R2, R3 and R4 is a group of formula II of the drawings



in which one of R5, R6 and R7 is an alkyl or a benzyl group, the others being alkyl groups and A represents an anion as herein described, and R1 and the others of R2, R3 and R4 are independently selected from hydrogen atoms, alkyl groups and alkoxy groups, which comprises reacting a hydroxythioxanthone corresponding to formula I wherein in place of the group of formula II is a hydroxy group, with a compound of formula III of the drawings



wherein R5, R6, R7 and A are all as defined for the group of formula II, R8 is a group 'OH and R9 is a leaving group such as a halogen atom, or R8 and R9 together represent an oxygen atom, in the presence of a base as herein described.

Compl. specn. 14 Pages

Drgs. one Sheet.

Ind. Cl. : 35E
Int. Cl. : 4 C04B 35/06.

168793

A PROCESS FOR MAKING HOT PITCH BONDED TAR DOLOMITE BRICKS USED IN LD. CONVERTER LININGS.

Applicant: STEEL AUTHORITY OF INDIA LTD., RESEARCH AND DEVELOPMENT CENTRE FOR IRON AND STEEL, AGOVT. OF INDIA ENTERPRISE, HAVING ITS REGISTERED OFFICE AT ISPAT BHAVAN, LODHI ROAD, NEW DELHI-110003.

Inventors: SACHI DULAL MAZUMDAR, SWAPAN KUMAR GARAI, TAPAS KUMAR PAL, NIRMAL KANTI GHOSH, AJOY KUMAR DASGUPTA & KRISHNA CHANDRA CHATTERJEE.

Application for Patent No. 1103/DEL/86 filed on 16th December 1986.

Complete specification left on 14th December 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

Claims 11

A process of making hot pitch bonded tar dolomite bricks used in LD. converter linings which process comprises mixing predetermined grain sized sintered dolomite as herein described with 50% of total tar required in a sigma mixer, heating the mix to a temperature of 120°—130°C., charging into the mixer ground dolomite mix, pitch

of the kind as herein described and remaining tar, and maintaining the temperature to not less than 130°C, adding additive as herein described and finally subjecting the mass to hot pressing at a temperature between 95° and 110°C.

Provisional specn 15 pages Drgs. one sheet.

Compl. Specn 24 Pages.

Ind. Cl. : 140 B2 168794
Int. Cl. 4 : C10M 137/14.

AN IMPROVED PROCESS FOR THE PHOSPHOSULPHIDATED JOJOBA OIL USEFUL AS MULTIFUNCTIONAL ADDITIVE FOR LUBRICATING OIL.

Applicant : COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH, Rasi marg, New Delhi-110001, India, an Indian registered body incorporated under the Registration of Societies Act (Act XXI of 1860).

Inventors : VIRENDRA KUMAR BHATIA & ALKA CHAUDHRY.

Application for Patent No. 1138/Del/86 filed on 24th December, 1986

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

Claims 6

An improved process for the preparation of phosphosulphidated jojoba oil useful as multifunctional additives for lubricating oil which comprises adding phosphorus pentasulfide to raw jojoba oil under normal atmosphere at a temperature between 130—160°C with stirring over 180 minutes, heating the reaction mixture further for 60 minutes at 180°C with constant stirring cooling and neutralising the product with a metal oxide.

Compl. specn. 5 pages

Ind. Cl. : 1562 168795
Int. Cl. 4 : B29C 43/00

METHOD OF MANUFACTURING MOLDED ARTICLES.

Applicant : ALLIED CORPORATION, incorporation organised and existing under the laws of the State of New York, United States of America, of Columbia Road and Park Avenue, Morris Township, Morris county, New Jersey, United States of America.

Inventors : CLARKS ALDEN RODMAN, EDWARD CORNMAN HOMONOFF, RADCLIFFE WILCOX FARLEY & EDWARD ALLEN VAUGHN.

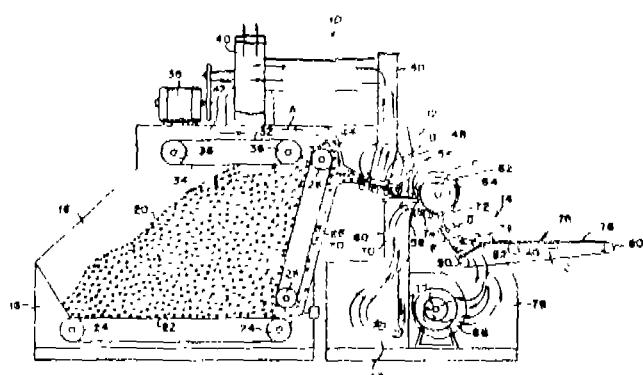
Application for Patent No. 91/Del/87 filed on 6th February, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

Claims 10

Method of manufacturing molded articles comprising the steps of forming a nonwoven, air laid batt from structured fibers formed by

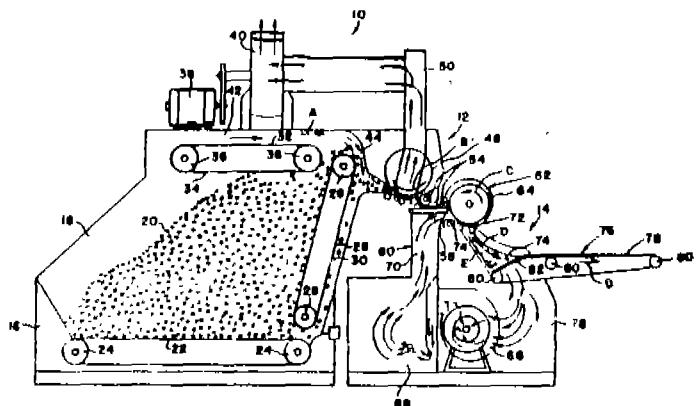
randomly depositing said fibers conveyed pneumatically in an air stream, on a condenser (78), said nonwoven batt having a substantial portion of its fibers interlocking randomly in each of the three spatial dimensions, characterised in that said method includes the steps of adding a thermoplastic binder material of the kind such as herein defined to the batt and molding the batt while heating the batt to a temperature to at least partially melt the binder material to form the batt into a shape-retaining article, said molding of the batt being effected without substantial compression of the batt.



molding said batt simultaneously with the heating to form the batt into a shape-retaining preform of the desired configuration;

characterized in that said shape-retaining preform is injected with a resin matrix to fill the interstices between the fibers; by applying resin and thereby

The preform becomes saturated with the injected resin matrix, and said injected preform is compressed by said mold in order to concentrate the fiber structure therein and mold said preform into a composite article of designed shape and of appropriate thickness and said resin injected preform is subjected to further compression by said mold in order to increase the concentration of the fibers within the final composite article.



Applicant: SOCIETE DE CONSEILS DE RECHERCHES ET D'APPLICATIONS SCIENTIFIQUES (S.C.R.A.S.), a French Company of 51/53, rue du Docteur Blanche, 75016 Paris, France.

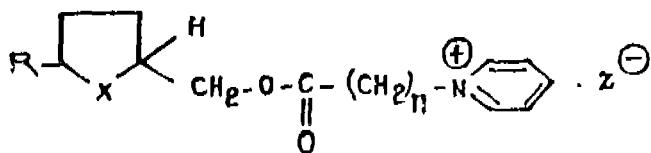
Inventor(s): JEAN-JACQUES GODFROID, FRANCOISE HEYMANS & PIERRE BRAQUET.

Application for patent No. 455/DFL/88 filed on 23rd May, 1988.
Convention date to May 29, 1987/8712693 (U.K.).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

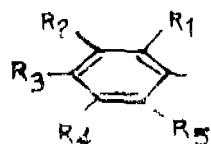
Claims 2

A process for preparing new tetrahydrofurans and tetrahydrotiophenes of formula I

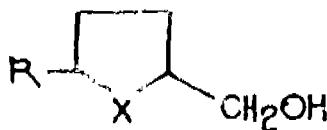


of the drawings wherein X stands for O or S; n is an integer from 1 to 6;

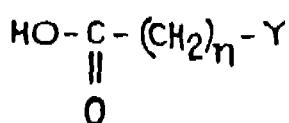
R stands for a straight or branched C—C alkyl, a C₅—C₁₀ cycloalkyl, an optionally substituted phenyl or an optionally substituted phenyl alkyl with 1 to 5 carbon atoms in the alkyl moiety, the substitutions R₁ to R₅ of the phenyl ring of formula II



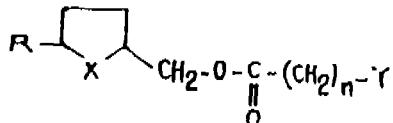
of the drawings being C₁H₃ or OCH₃ and Z is a pharmaceutically acceptable anion, said process comprises reacting a compound of formula III



of the drawings wherein R and X are as defined above with a compound of formula IV



of the drawings wherein X, n and R are as defined above and Y is an halogen, in an inert solvent such as herein described, at room temperature in the presence of triisopropylbenzenesulfonylchloride and pyridine, which lead to the intermediate compound of formula V



of the drawings wherein X, n, R and Y are as defined above and finally substituting pyridine to Y in a manner known per se.

Compl. specn. 8 pages

Drgs. 2 sheets.

Ind. Cl.: 32F 2a
Int. Cl.: C07 C69.612.

168800

A PROCESS FOR CONVERTING A STARTING MIXTURE OF CRYSTALLIZABLE PYRETHROID ISOMERS TO DESIRED MORE PESTICIDALLY ACTIVE ISOMERS.

Applicant: EMC CORPORATION, a corporation organised under the laws of the State of Delaware, United States of America, of 2000 Market Street, Philadelphia, Pennsylvania 19103, United States of America.

Inventor: JOHN WINFRID AGER.

Application for Patent No. 525/DEI/88 filed on 15th June 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

Claims 28

A process for converting a starting mixture of crystallizable pyrethroid isomers to desired more pesticidally active isomers, characterized by:

- forming a slurry of the starting mixture in a liquid medium consisting essentially of an inert hydrocarbon solvent in which the desired isomers are substantially insoluble;
- contacting the slurry with a base of the kind such as herein described and a catalyst, said catalyst being substantially soluble in the liquid medium and selected from a quaternary ammonium compound, a quaternary phosphonium compound and a crown ether;
- agitating the resulting mixture while maintaining it at ambient temperature for effecting said conversion, and
- recovering by any conventional method, the resulting crystallized isomers.

Compl. specn. 32 pages

Drgs. sheet 1.

CLASS : 32-F1
Int. Cl. : C 07 C 149/34, 149/36.

168801

PROCESS FOR THE PREPARATION OF HALOPHENYL HYDROXYETHYL SULFIDES.

Applicant : HOECHST AKTIENGESELLSCHAFT, D-6230 FRANKFURT AM MAIN 80, F. R. GERMANY.

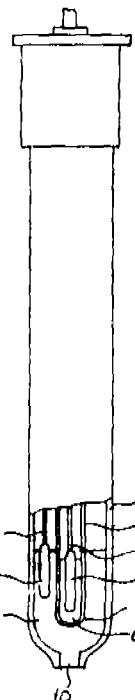
Inventors : THEODOR PAPENHUIJS

Application No. 603/Cal/1986 filed on 26th August, 1986.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Calcutta.

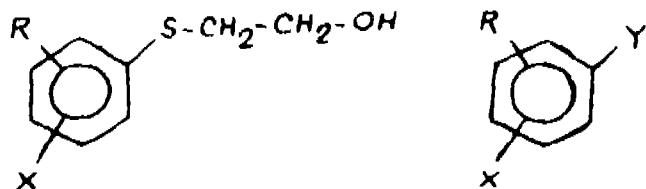
a measuring electrode including a gelatinized member having a desired shape and formed by gelatinizing an appointed solution, as herein described, such as an internal solution or a buffer solution or a pH adjusting solution as herein described of combinations thereof, with a gelatinizer and adding a gel-evaporation inhibitor to the gelatinized solution; and

a reference electrode including a gelatinized member aforesaid said electrodes being supported to form a continuous portion of the planner surface.



Claims 4

A method for the preparation of halophenyl hydroxyethyl sulfide of the general formula (3) of the accompanying drawings



in which r denotes a chlorine or bromine atom or a (C₁—C₆) alkyl group which comprises reacting a halobenzene of the general formula (2) in which R and X have the meanings specified above and Y represents a chlorine or bromine atom, with mercapto-ethanol in a dipolar aprotic solvent in the presence of an alkali metal oxide, hydroxide or carbonate at temperature between 80—140°C to form said halophenyl hydroxy-ethyle sulfide of the general formula (3).

Compl. specn. 16 pages

Drgs. 1 sheet

Compl. specn. 42 pages

Drgs. 6 sheets

CLASS : 70-A
Int. Cl. : G 01 n 27/00.

168802

A COMPACT ION CONCENTRATION MEASURING APPARATUS.

Applicant : HORIBA LIMITED, OF 2 MIYANOHIGASHI-MACHI, KISSYOIN, MINAMI-KU, KYOTO, JAPAN.

Inventors : KATSUHIKO TOMITA AND AKAMI MOTOISUNE.

Application No. 653/Cal/1987 filed on 18th August, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A compact ION concentration measuring apparatus for providing an indication as to the ION concentration of a sample characterized in that there is provided :

a sample testing member having a relatively planner surface,

CLASS : 83-A1, A2, B1, B4.
Int. Cl. : A 231 1/211, 1/277, 1/325, 3/34.

168803

A METHOD FOR PRODUCING A PROCESSED ACID FOODSTUFF.

Applicant : AMERICAN NATIONAL CAN CO., OF 8101 WEST HIGGINS ROAD, CHICAGO, U.S.A.

Inventors : (1) RALPH W. KAERCHER, (2) DEBORAH J. MCINTYRE, (3) DWIGHT E. REED.

Application No. 903/Cal/1987, filed on 19th November, 1987.

(Convention dated 27th July, 1987; No. 543, 029, Canada)

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

24 Claims

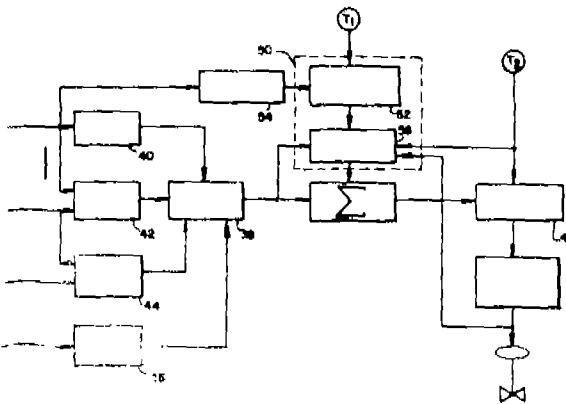
A method for producing a processed acid foodstuff such as herein described having improved organoleptic texture, color and/or flavor,

the method comprising :

combining the foodstuff with a hydrolysis mixture of an aldonic acid and its lactones or a precursor thereof in an amount sufficient to lower the equilibrium pH to in the range of from 2.3 and 5.7 and subjecting the foodstuff at a temperature of between 170° to 270°F for a time sufficient to achieve commercial sterilization thereof, the time-temperature parameter being lower than the higher commercial sterilizing parameter needed when said hydrolysis mixture or said precursor are not present, whereby one or more of the organoleptic texture, color, or flavor properties of said foodstuff are improved compared to said properties when said lower parameter or said acid and its lactones are not employed, the sterilization being optionally effected in a hermically sealed container having been filled with the foodstuff and the hydrolysis mixture.

Compl. Specn. 68 Pages.

Draws. 8 Sheets



Compl. Specn. 12 Pages.

Draws. 2 Sheets.

CLASS : 37-A.

168805

Int. Cl. : B 04 c 7/00.

1. A HYDROCYCLONE FOR SEPARATING A MIXTURE OF DISPERSED PHASE OF LIGHTER COMPONENT.

Applicant : DELAWOOD PTY. LTD., OF 89 ORRONG CRES-CENT, NORTH CAULFIELD, VICTORIA 3161, AUSTRALIA.

Inventors : (1) GAVAN JAMES JOSEPH PRENDERGAST, (2) DAVID ANDREW WEBB.

Application No. 931/Cal/1987, filed on 26th November, 1987.

(Convention dated 26th November, 1986; No. PII 09165 and 6th February, 1987; No. PI 0217; All are Australia.)

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

23 Claims

A hydrocyclone for separating a mixture of a dispersed phase of a lighter component, such as herein described, comprising opposite first and second ends, between which a hydrocyclone axis (as herein defined) extends, the area of the cross-section (as herein defined) of the hydrocyclone decreasing overall from the first end to the second end; inlet means adjacent to the first end for introducing the feed mixture into the hydrocyclone; and first and second outlet means for the discharge respectively of comparatively less and more dense components separated from the mixture, the first outlet means being located substantially on the hydrocyclone axis; and the second outlet means being adjacent to the second end; wherein if d_2 be the nominal hydrocyclone diameter defined by :

$$d_2 = \sqrt[3]{\frac{V}{24}}$$

where V represents the effective internal volume of the hydrocyclone not including inlet and outlet ducts; and if the number of inlets in the region of the first end is an integer n with a value equal to or greater than 1, wherein a fluid mixture of mass flow rate m is fed through the p^{th} inlet into the hydrocyclone with a momentum per unit time L_p (L_p being a vector quantity), $\langle L_p \rangle$ being the vector component of L_p parallel to the plane normal to the hydrocyclone axis (as hereinbefore defined) at the p^{th} inlet, r_p being the minimum radius from the hydrocyclone axis to the point on the line of direction of the vector component $\langle L_p \rangle$, r_p being parallel to the plane normal to the

CLASS : 98-H.
Int. Cl. : G 05 d 23/00.

168804

A STEAM TEMPERATURE CONTROLLER.

Applicant : THE BABCOCK & WILCOX COMPANY, OF 1010 COMMON STREET, P.O. BOX 60035, NEW ORLEANS, LOUISIANA 70160, U.S.A.

Inventors : (1) THEODORE NICHOLAS MATSKO, (2) ROBERT SAMUEL RAND, (3) THOMAS DAVID RUSSELL, (4) THOMAS JOSEPH SCHEIB, (5) ROBERT ROY WALKER.

Application No. 910/Cal/1987, filed on 26th November, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

4 Claims

A steam temperature controller comprising :

a feed forward predictor for presetting an expected secondary superheater inlet temperature with a boiler load and for generating a secondary superheater inlet temperature cascade controller set point;

a first modifier means for correcting said expected inlet temperature for the deviation between a target rate required for the boiler load and an actual firing rate;

a second modifier means for correcting said expected inlet temperature for the deviation between its target rate;

a third modifier means for correcting said expected inlet temperature for reheat temperature control;

a feedback correction control means for final correction; and

a cascade control means responsive to said inlet temperature for providing rapid process loop response to predictable intermediate process control points.

hydrocyclone axis at the p^{th} inlet and r_p being perpendicular to the line of direction of the vector component $\angle L_p$, d_i being the effective diameter of the first end being defined as :

$$d_i = \frac{2 \times \sum_{p=1}^n r_p |\angle L_p|}{\sum_{p=1}^n |\angle L_p|}$$

and A_i being the effective inlet area as defined by :

$$A_i = \sum_{p=1}^n A_p \left(-\frac{|\angle L_p|}{\sum_{p=1}^n |\angle L_p|} \right)$$

where A_p is the total cross-sectional area at the p^{th} inlet at entry to the hydrocyclone in a plane parallel to the hydrocyclone axis at inlet p and normal to the vector component $\angle L_p$; the following criteria exist :

A. $3 < V_r < 28$, where

$$V_r = \frac{\pi d_1 d_2}{4 A_i}$$

where V_r is the velocity ratio;

B. the hydrocyclone measured along the hydrocyclone axis from the first end to the second end is at least $10d_2$ units long;

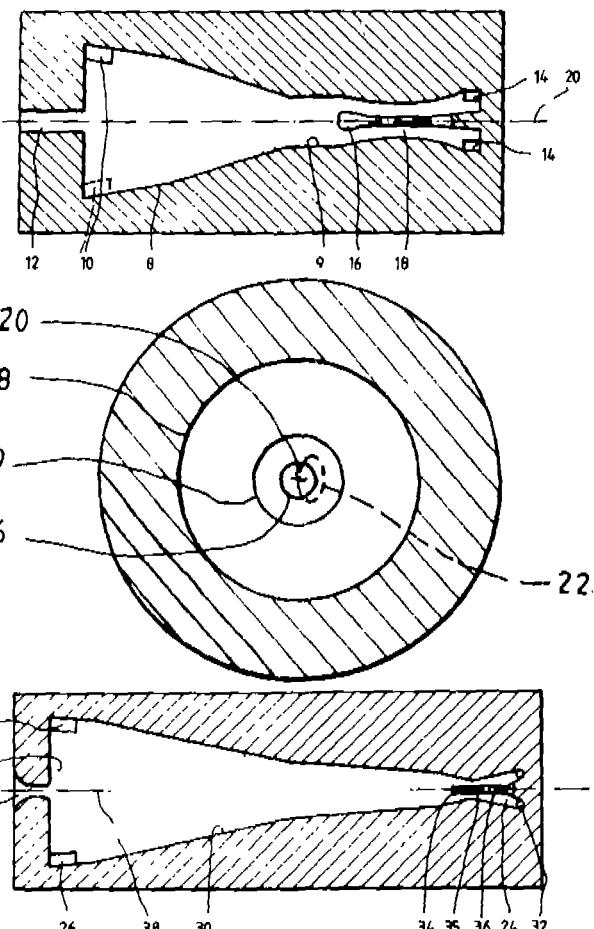
C. the hydrocyclone includes a section situated between the first and second end, of at least $8d_2$ units long when measured along the hydrocyclone axis where :

$$15' < \alpha < 25'$$

α being the average half angle of convergence of a side wall of the hydrocyclone; and,

D. the first outlet means having a minimum effective cross-sectional diameter d_o , where

$$\frac{d_o}{d_2} < 0.25$$



Compl. Specn. 31 Pages.

Drgs. 4 Sheets.

CLASS : 94-H, I.

Int. Cl. : B 02 c 4/28; C 13 d 1/00.

168806

MILL ROLL FOR GRINDING AND EXTRACTING JUICY MATERIAL

Applicant : IRVING CHUNG-CHI CHEN, OF A 10 ELEGANT GARDEN, 18 BABINGTON PATH, HONG KONG.

Inventors : IRVING CHUNG-CHI CHEN.

Application No. 74/Cal/1988, filed on 28th January, 1988.

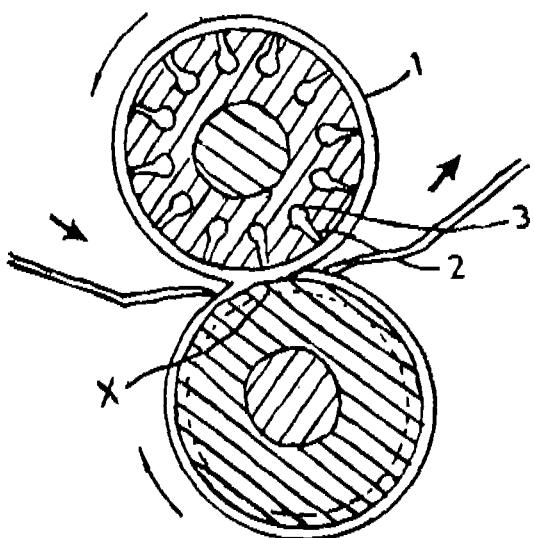
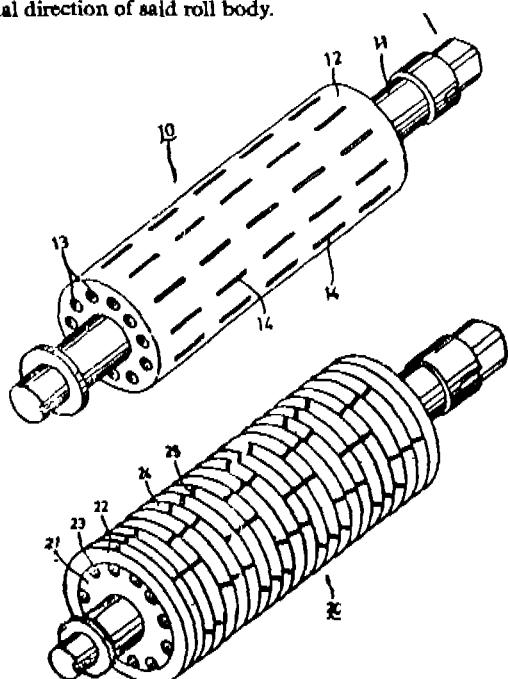
Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972), Patent Office, Calcutta.

22 Claims

A mill roll for grinding a juicy material such as sugar cane, comprising a shaft; a roll body sleeved on said shaft and formed with :

a plurality of juice channels axially extending throughout the length of said roll body and distributed substantially annularly at positions inwardly of the outer peripheral surface of said roll body; and a plurality juice inlet passages communicating with and extending radially outward from said juice channels to the outer periphery of said roll body and spaced apart axially and circumferentially, each of said juice inlet passages opening at the outer periphery of said roll body

and having a longer dimension substantially in the axial direction of said roll body and a shorter dimension substantially in the circumferential direction of said roll body.



Compl. Specn. 28 Pages.

Drgs. 11 Sheets.

CLASS : 123.
Int. Cl. : C 05 c 9/00, 13/00.

168807

AN IMPROVED PROCESS FOR PRODUCING FERTILIZER-GRANULES CONTAINING UREA AND AMMONIUM SULPHATE.

Applicant: NEDERLANDSE STIKSTOF MAATSCHAPPIJ BV., OF INDUSTRIEWEG 10, 4541 HJ SLUISKIL, THE NETHERLANDS.

Inventors: (1) ANDRE FIRM IN KAYAERT, (2) WALTER EDMOND MATHILDE CARDON.

Application No. 294/Cal/1988, filed on 8th April, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

7 Claims

An improved process for producing fertilizer granules having high sulfur content containing urea and ammonium sulphate by granulation in a fluidized bed of particles, wherein the improvement comprises introducing ammonium sulphate particles into a fluidized bed and applying urea to said particles in the fluidized bed by spraying an aqueous urea-containing liquid such as herein described with a urea concentration of 70-99% by weight, the temperature in the fluidized bed being in the range of 80°C to 115°C.

Compl. Specn. 23 Pages.

Drg. 1 Sheet.

CLASS : 139-G.
Int. Cl. : C 01 b 31/26; C 09 k 9/00.

168808

SULFUR DISSOLVING COMPOSITION BASED ON DISULFIDE, POLYSULFIDE OR MIXTURES THEREOF.

Applicant: PENNWALT CORPORATION, PENNWALT BUILDING, THREE PARKWAY PHILADELPHIA, PENNSYLVANIA 19102, U.S.A.

Inventors: (1) GLENN THOMAS CARROLL, (2) MICHAEL JEFFREY LINDSTROM.

Application No. 340/Cal/1988, filed on 27th April, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

22 Claims

A sulfur dissolving composition comprising:

(a) a disulfide, polysulfide, or mixtures thereof, having the following formula:



where R and R¹ are independently alkyl, aryl, alkaryl, alkoxyalkyl, or hydroxyalkyl radicals wherein the alkyl moiety has from 1 to 24 carbon atoms and a is 0 to 3;

(b) a catalytic amount of a mixture of an aqueous or alcoholic solution of an alkali hydroxide, alkoxide, or carbonate; and

(c) upto 10% by wt. of one or more basic nitrogen-containing compounds as herein described.

Compl. Specn. 18 Pages.

Drg. 1 Sheet.

CLASS : 128-G.
Int. Cl. : A 61 m 1/02.

168809

DEVICE FOR RECOVERING AND REINJECTING BLOOD.

Applicant & Inventor: PHILIPPE PIROVITCH, OF 251 AVENUE DE LA MARNE, 33700, MERIGNAC, FRANCE.

Fig. 4

Application No. 302/Cal/1988, filed on 12th April, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

10 Claims

A device for recovering and reinjecting into a patient's organism his own blood in order to compensate a haemorrhage, of the type comprising sterile means for recovering the blood by suction, adapted to be positioned in the immediate proximity of the point of rupture of the vessels to receive and such the blood, filtering means for eliminating the aggregates and particles of blood or non blood origin likely to have a thrombogen activity, means for injecting anti-coagulant products into the collected blood and means for circulating the blood allowing, on the one hand, suction thereof and, on the other hand, reinjection into the patient's blood circulatory system, characterized,

In that the suction means are constituted by blood suction nozzle (102), connected via a supple pipe (31) to a filtration chamber (2) to guide the blood thus recovered from the suction nozzle (102) to the said filtration chamber maintained at a low pressure by the said means for circulating the blood and the said suction nozzle (102) is in communication via a valve (104) and a second supple pipe (103) to a reserve (105) such as a bottle containing active products in the liquid state adapted to prevent the formation of clots in the blood, the said products being introduced in the blood immediately after having left the body, thus reducing the risk of coagulation in the blood during the operation.

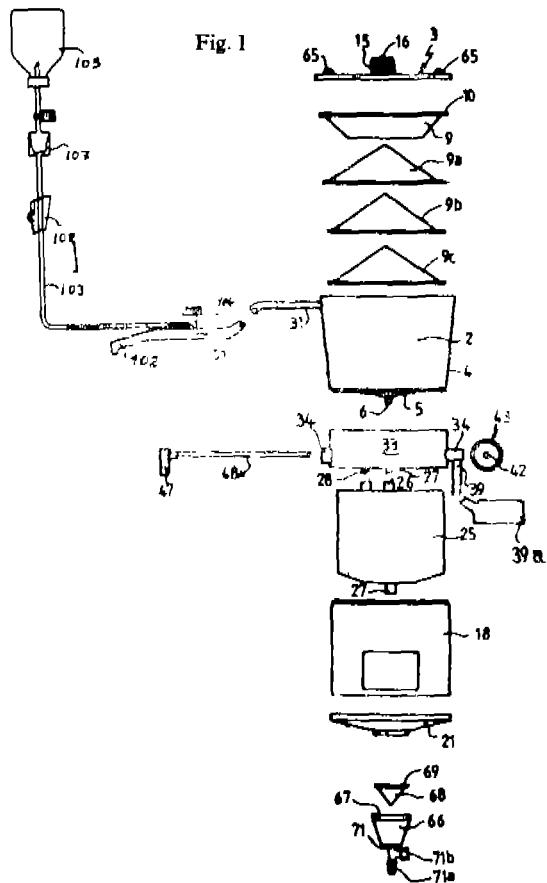
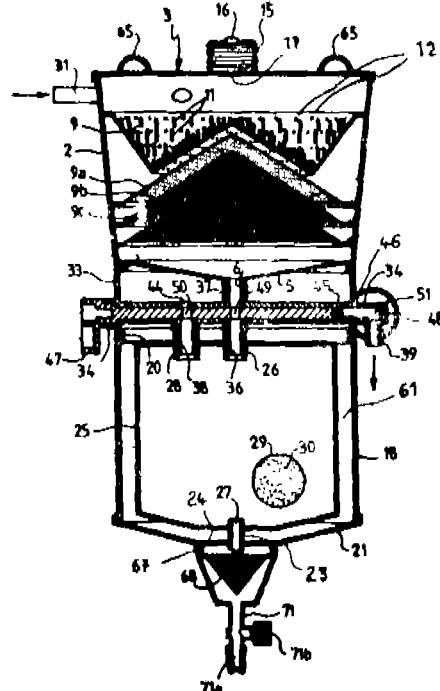


Fig. 1



Compl. Specn. 21 Pages.

Drgs. 3 Sheets.

CLASS : 32-F₂_(a)
Int. Cl. : C 07 c 79/36, 101/42.

168810

PROCESS FOR THE PREPARATION OF HYDROXYE-
HYLSULFONYLNITRO-AND HYDROX-
YETHYLSULFONYLAMINOBENZOIC ACIDS.

Applicant: HOECHST AKTIENGESELLSCHAFT, D-6230
FRANKFURT AM MAIN 80, F. R. GERMANY.

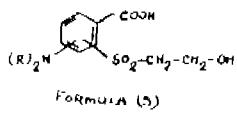
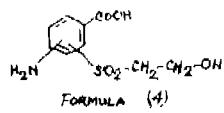
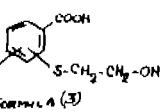
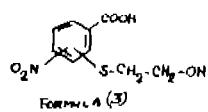
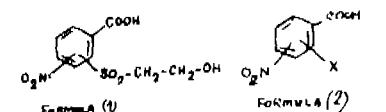
Inventors : THEODOR PAPENFUHS.

Application No. 808/Cal/1988, filed on 29th September, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

7 Claims

A process for the preparation of compound of the formula (5) of the accompanying drawings



in which R denotes a hydrogen or oxygen atom and the -N(R)₂ group and the hydroxyethylsulfonyl group are in the ortho- or para-position relative to one another, which comprises reacting 1 mol of a halonitrobenzoic acid of the formula (2) in which X denotes a fluorine, chlorine, bromine or iodine atom, and the nitro group and the halogen atom are in the ortho- or para-position relative to one another, with at least 1 mol of mercaptoethanol in an aqueous solution or suspension or in an organic solvent in the presence of an acid-binding agent such as herein described at temperatures from 20 to 100°C, to provide the corresponding hydroxyethylmercaptonitrobenzoic acid of the formula (3), oxidizing the acid thus obtained in a manner known per se to the corresponding hydroxyethylsulfonylnitrobenzoic acids of the formula (5) (R denoting oxygen) and if desired reducing the latter, in a known manner per se, to the corresponding hydroxyethylsulfonylaminobenzoic acids of the general formula (4) in which the amino and hydroxyethylsulfonyl group are in the ortho- or para-position relative to one another.

Compl. Specn. 23 Pages.

Drg. 1 Sheet.

REGISTRATION OF ASSIGNMENTS, LICENCES, ETC. (PATENTS)

Assignments, Licences or other transactions affecting the interest of the original Patentees have been registered in the following cases.

The number of each case is followed by the name of the parties claiming interest:—

156855 — Kakan Special Smokeless Fuel Pvt. Ltd; North Bengal Coal Complex Pvt. Ltd; Solar Smokeless Fuels Pvt. Ltd, Maa Chinnamastika Coke Industries (Pvt) Ltd.

163957 — Genicom Corporation.

150509 — Chemrex Inc.

162848 — Focas Limited.

153014
153015
154236 } Biec International Inc.

145687 — Bhartia Cutler Hammer Limited.

158682
156824
156825
159353 } Alcatel N.V.

156900
157152
159739 } Union Switch & Signal Inc.

REGISTRATION OF DESIGNS

The following design have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entries is the date of the registration in the entry.

Class 1. Nos. 162622 & 162623. Normak Fashions (P) Ltd. of 201, YMCA Complex, S.P. Road, Secunderabad-500003, A.P. India. "Necklace and bracelet". November 6, 1990.

Class 1. Nos. 162624 to 162628. Normak Fashions (P) Ltd. of 201, YMCA Complex, S.P. Road, Secunderabad-500003, A.P., India. "Necklace and ear-tops". November 6, 1990.

Copyright extended for the 3rd period of five years

Nos. 150811, 150828, 151232, 151514, 153595, 151231 and 1 680—
Class 1.

Nos. 154516, 152596, 150311, 150354 to 150356—Class 3.

R. A. ACHARYA,
Controller General of Patents,
Designs and Trade Marks.

